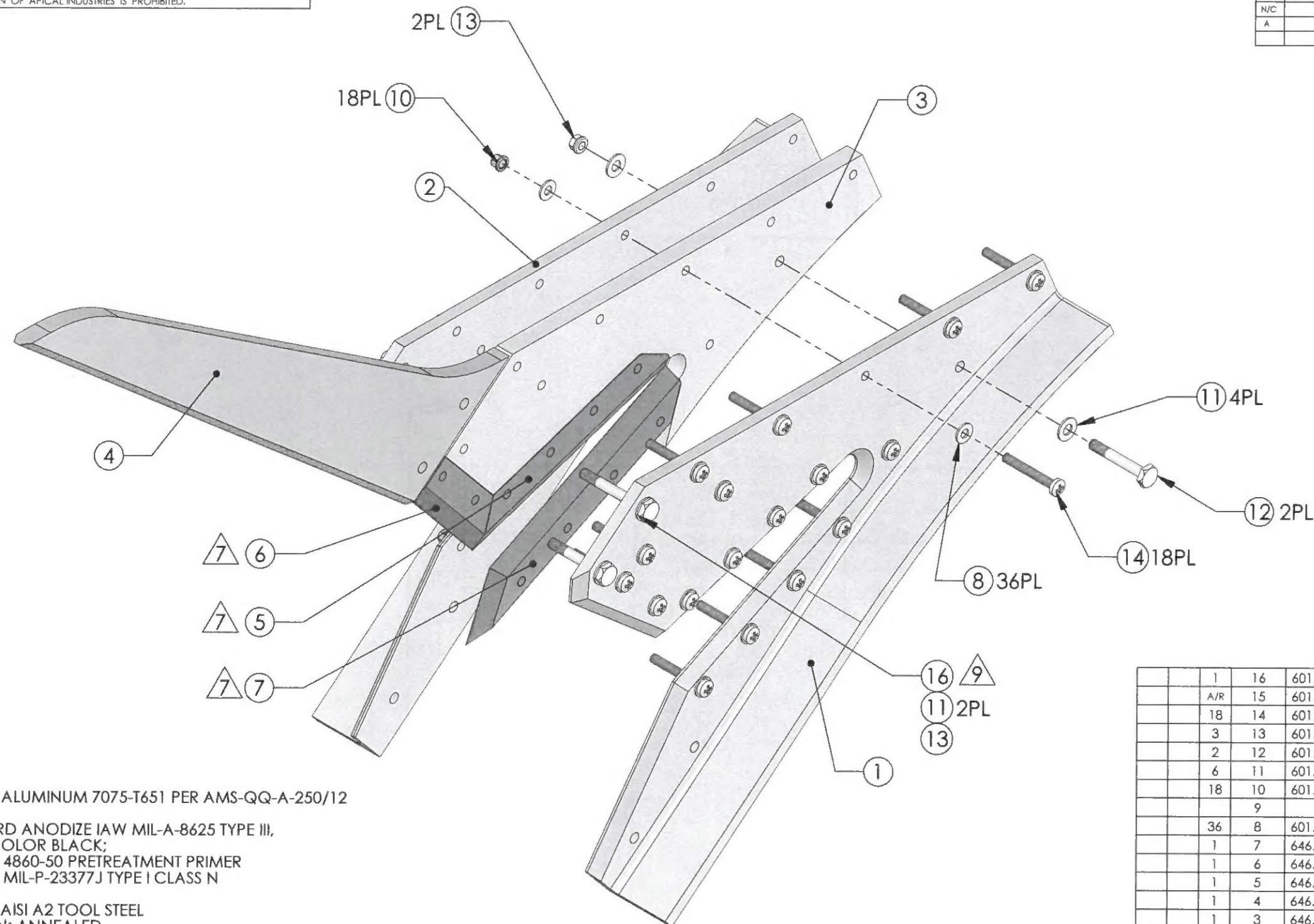


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	08/26/08	P. BRAVO
A	INCORPORATED ECNS 02196, 03724, 04765, & 05708	02/21/17	P. BRAVO



NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N
5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
6. IDENTIFY IAW MPP-120
- 7 APPLY F/N 15 AS REQUIRED TO ALL FAYING SURFACES OF F/N 5, 6 & 7 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 INSTALL FASTENER FINGER-TIGHT

646.3301
SHOWN EXPLODED

	1	16	601.2834	BOLT	ANS-14A	
	A/R	15	601.2045	RTV, LOCTITE 598		
	18	14	601.2765	SCREW	MS27039-0819	
	3	13	601.1624	LOCKNUT	MS21042L3	
	2	12	601.2763	BOLT	ANS-12A	
	6	11	601.1607	WASHER	NAS1149F0332P	
	18	10	601.1541	LOCKNUT	MS21042L08	
		9		DELETED		
	36	8	601.2764	WASHER	NAS1149FNB32P	
	1	7	646.3316	BLADE	3	4
	1	6	646.3315	BLADE	3	4
	1	5	646.3314	BLADE	3	4
	1	4	646.3313	UPPER GUIDE	1	2
	1	3	646.3312	CENTER PLATE	1	2
	1	2	646.3311	RH HALF	1	2
	1	1	646.3310	LH HALF	1	2
			646.3301	UPPER CUTTER ASSY		
	.3301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY	PARTS LIST					
NEXT ASSY (S)	ORIGINAL DATE (MO-DA-YR) 08-26-08					
646.4000	DRAWN BY S. HUFF CHECKER P. BRAVO					
	DRAWING APPROVAL P. BRAVO 08-26-08					
	CONTRACT No.					
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°					
	SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A		
	SCALE NONE	SHEET 1 OF 8				

1 2 3 4 5 6 7 8

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11.689
11.648
11.250
10.808
10.647
10.116
9.636
9.172
5.922
5.046
.491
.098
.074
0
0
.925
1.156
1.180
1.286
1.759
2.256
3.513
4.410
4.689
7.657
8.183
8.375
5.246
17.720
R.125 TYP
R17.375
8.1°
.250
.250
1.250

A
B
C
D

646.3310 SHOWN
646.3311 OPPOSITE

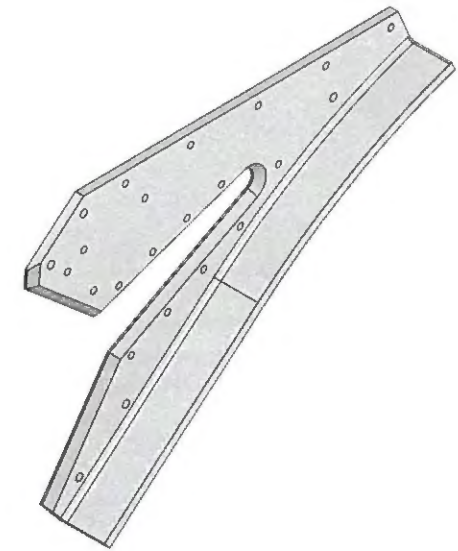
ORIGINAL DATE (MO-DA-YR) 08-26-08
DRAWN BY S. HUFF
CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO
CONTRACT No.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°


DART AEROSPACE
APICAL INDUSTRIES, INC.
dba DART AEROSPACE

3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300

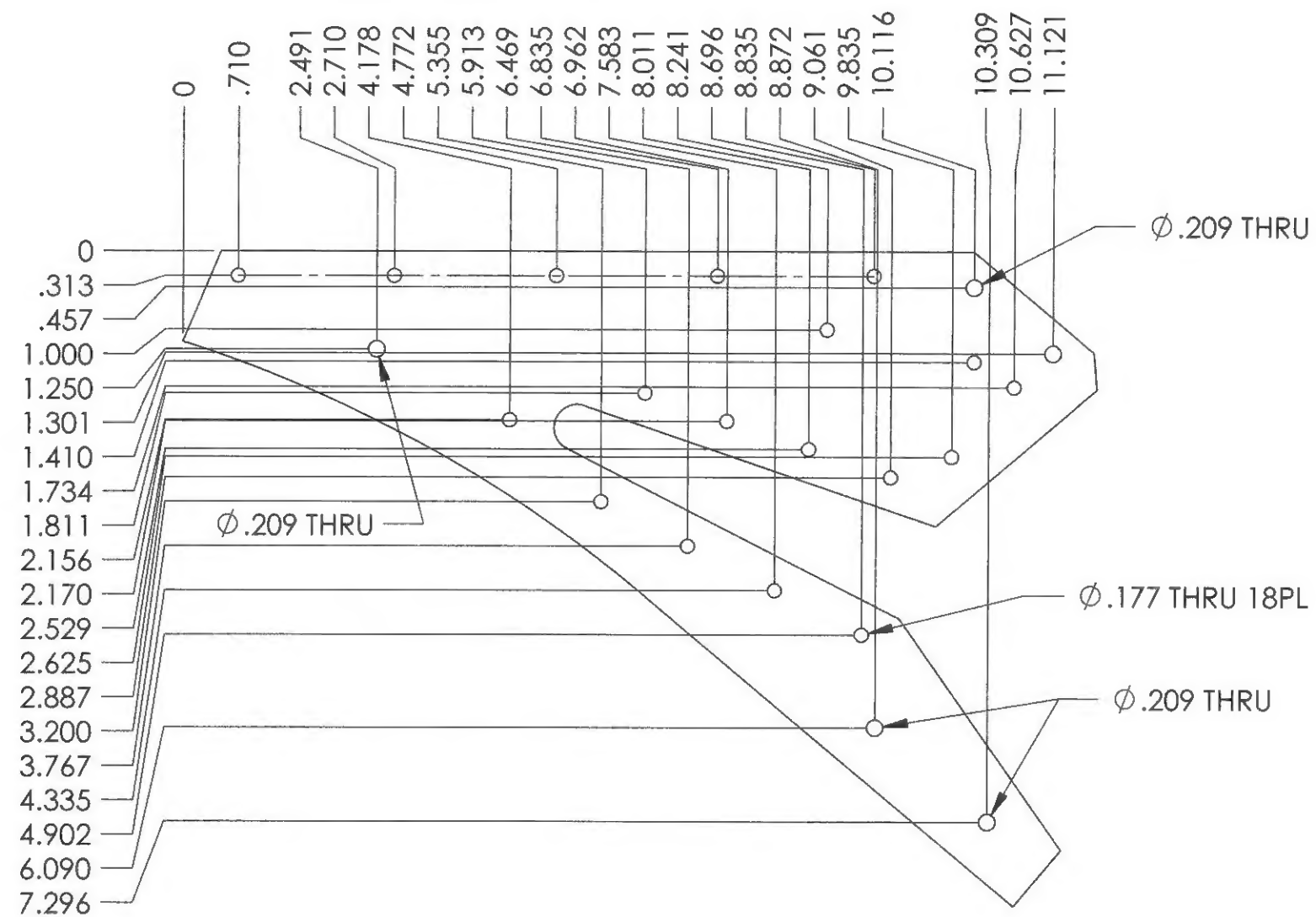
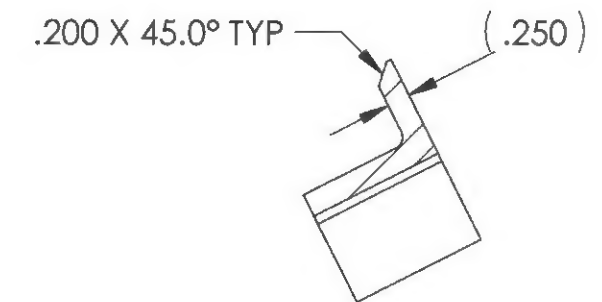
UPPER CUTTER ASSY

SIZE B
CAGE CODE 07MZ6
DWG. NO. 646.3300
REV. A
SCALE: NONE
SHEET 2 OF 8



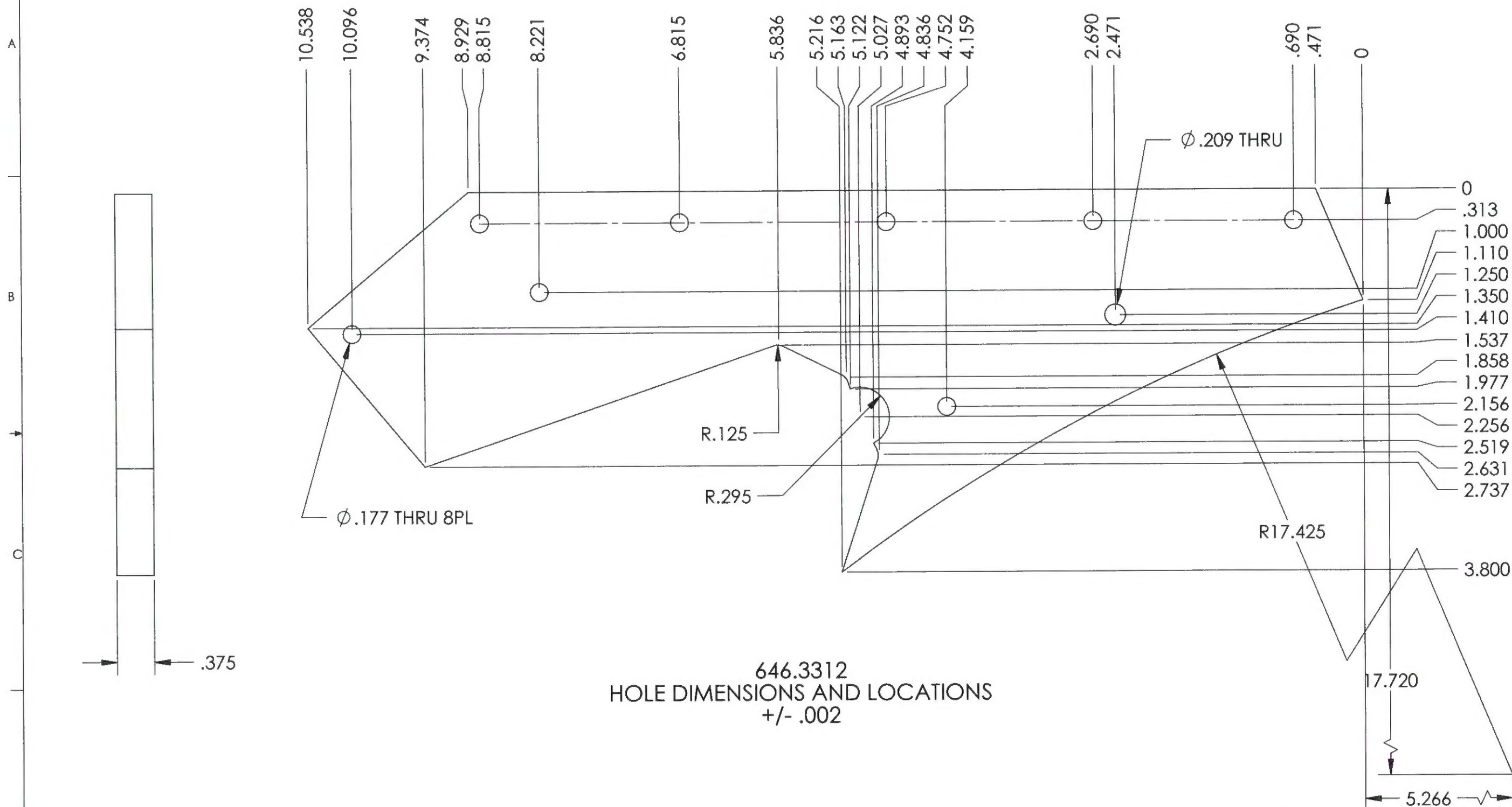
ORIGINAL DATE (MO-DA-YR) 08-26-08	 APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY P. HUFF CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO	UPPER CUTTER ASSY			
CONTRACT No.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLE ±.1°	SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
	SCALE: NONE		SHEET	2 OF 8

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SECTION A-A SECTION B-B 

ORIGINAL DATE (MO, DA, YR)	08-26-09	 DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL		APICAL INDUSTRIES, INC. dba DART AEROSPACE			
CONTRACT NO.		UPPER CUTTER ASSY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.005 3 PLACE DECIMALS ±.001 ANGLES ±.5°		SER B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
SCALE NONE			SHEET 3 OF 8		

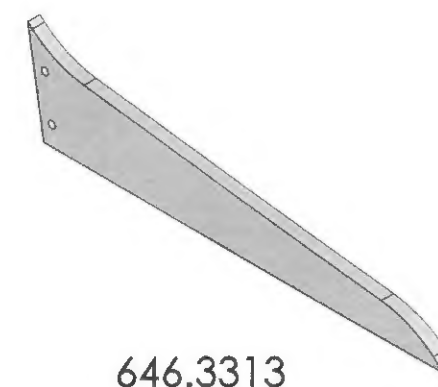
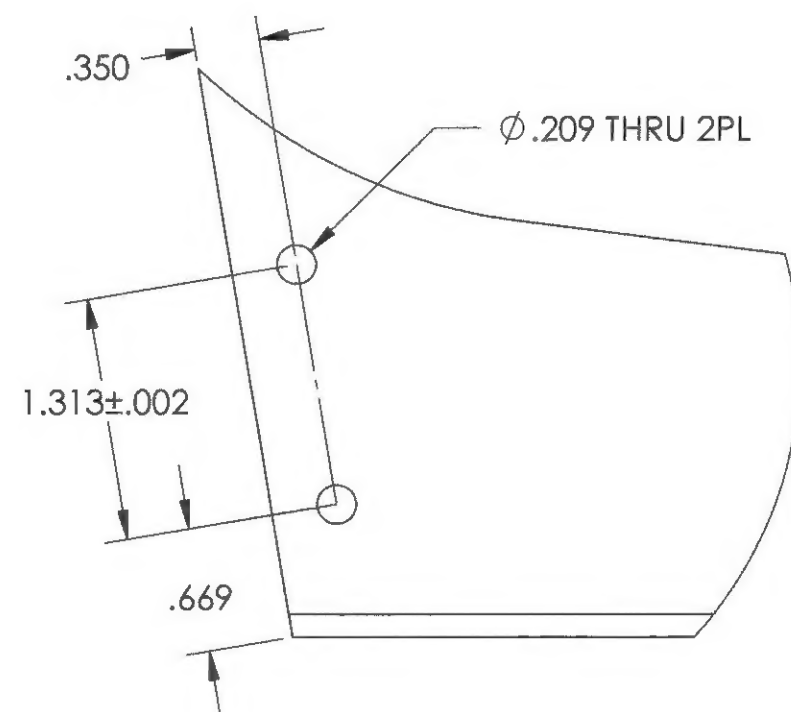
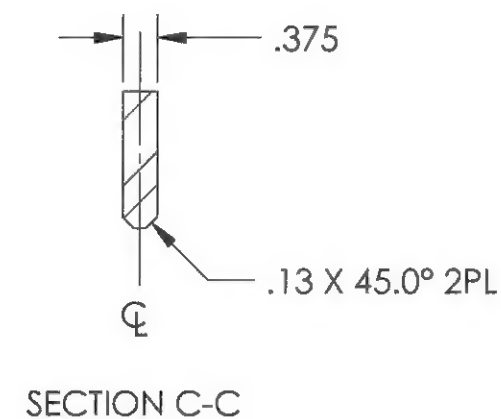
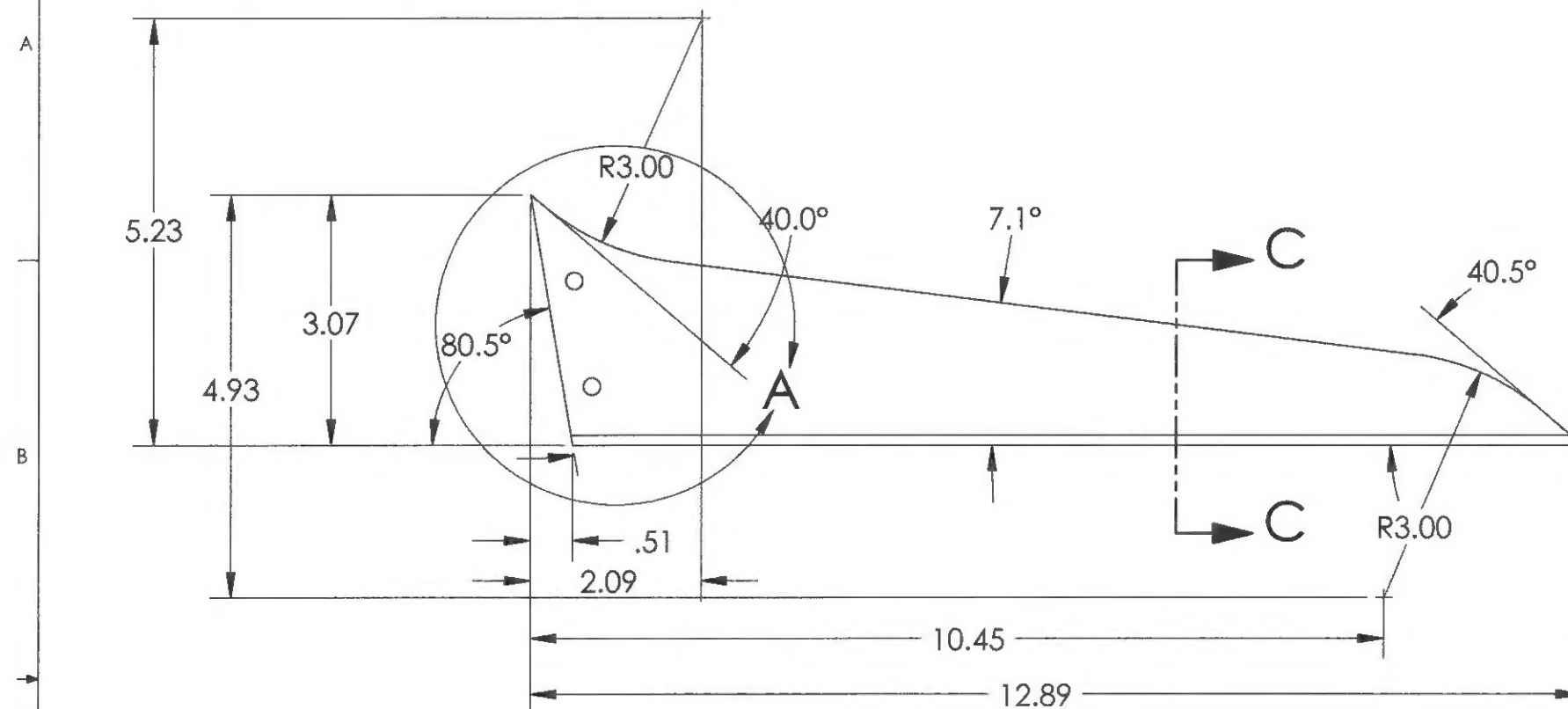
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646.3312
HOLE DIMENSIONS AND LOCATIONS
+/- .002

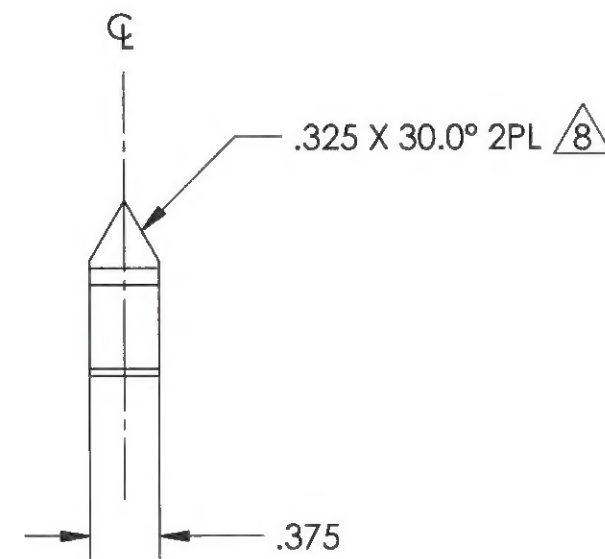
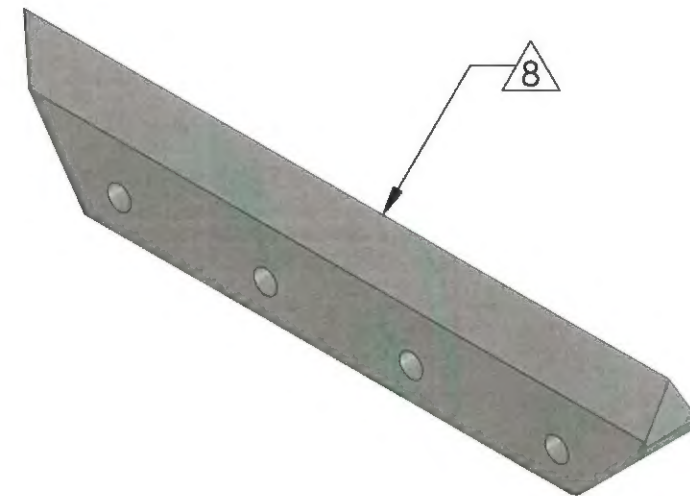
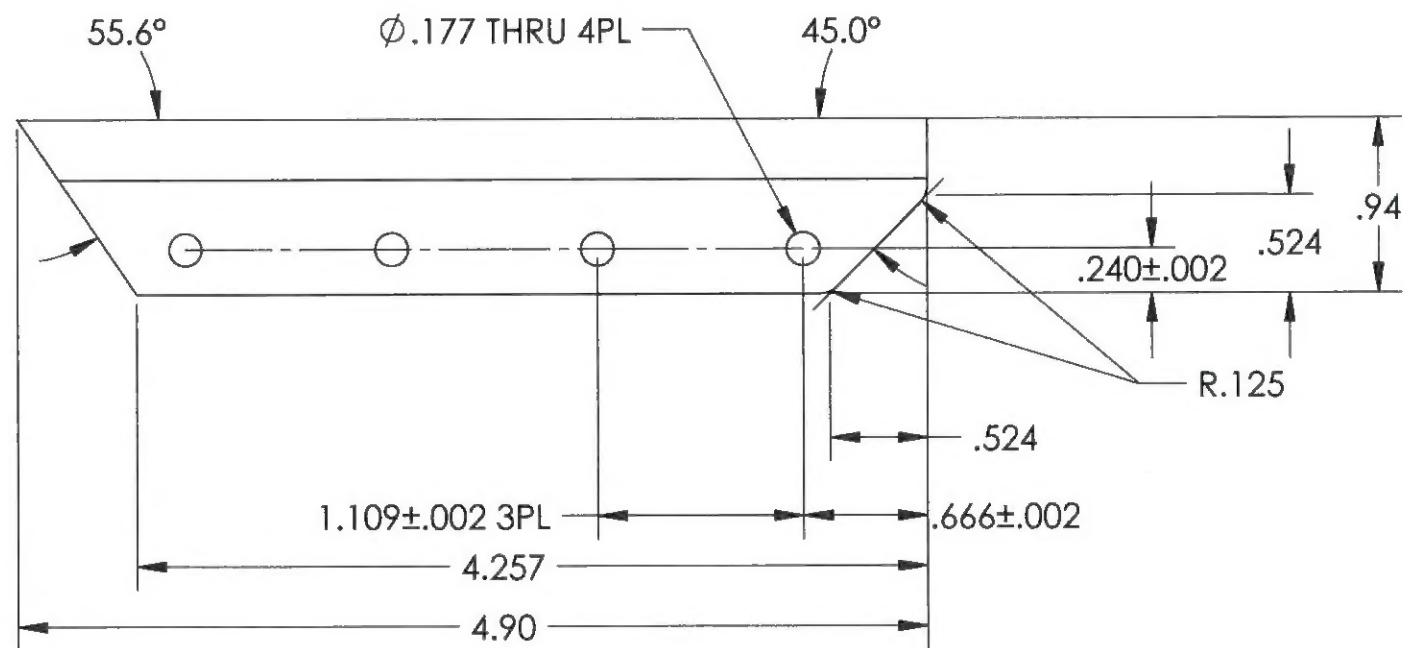
ORIGINAL DATE (MO-DA-YR) 08-26-08	3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		
DRAWN BY S. HUFF	CHECKER P. BRAVO	DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 08-26-08	UPPER CUTTER ASSY		
CONTRACT No.	SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	SCALE NONE	REV. A	
		SHEET 4 OF 8	

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ORIGINAL DATE (MO-DA-YR) 08-26-08		 DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV A
		SCALE NONE		SHEET 5 OF 8	

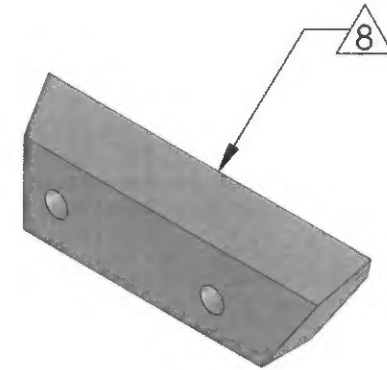
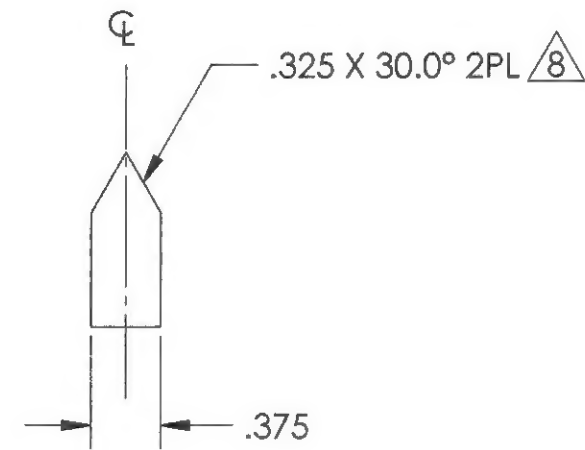
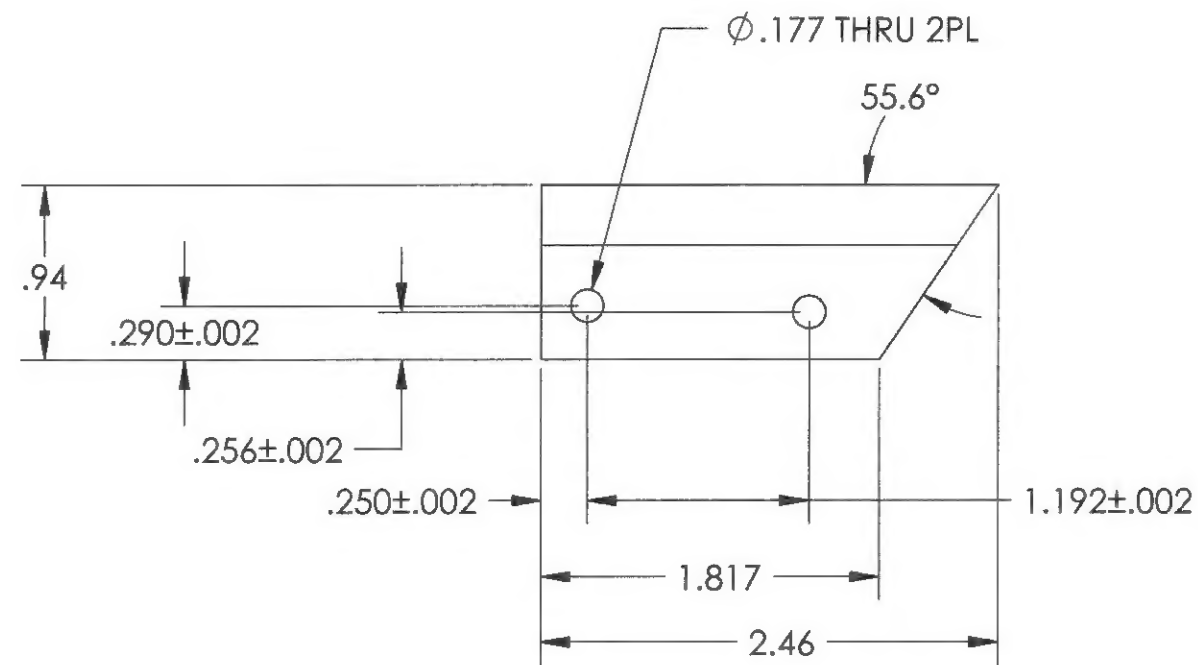
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646.3314

ORIGINAL DATE (MO-DA-YR) 08-26-08		 DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
		SCALE NONE		SHEET 6 OF 8	

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646.3315

ORIGINAL DATE (MO-DA-YR) 08-26-08		 DART AEROSPACE APICAL INDUSTRIES, INC. dnt DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE	CAGE CODE	DWG. NO.	REV.
		B	07MZ6	646.3300	A
		SCALE NONE		SHEET	7 OF 8

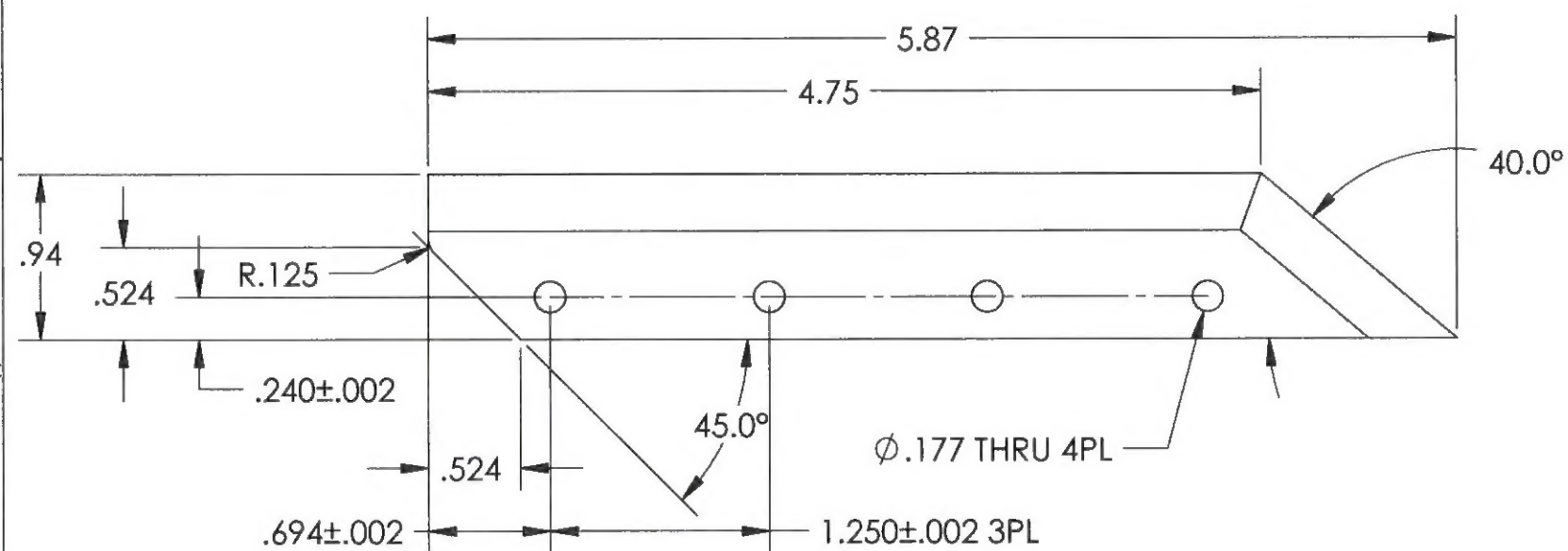
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A

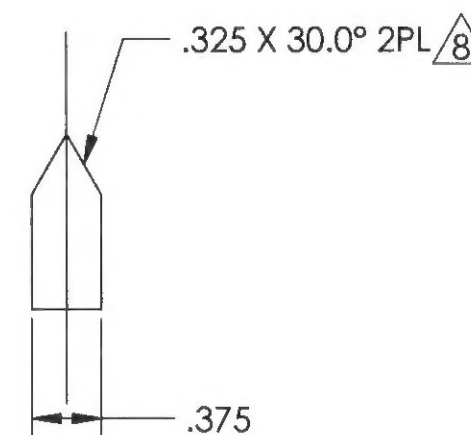
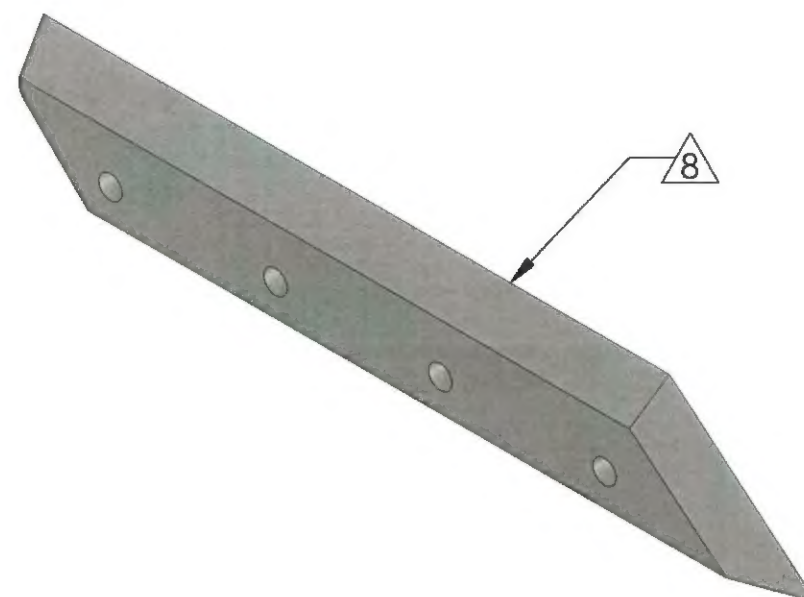
B

C

D



646.3316



ORIGINAL DATE (MM-DA-YR) 08-26-08		DRAWN BY S. HUFF		CHECKER P. BRAVO		DRAWING APPROVAL P. BRAVO		CONTRACT No.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
SIZE B		CAGE CODE 07MZ6		DWG. NO. 646.3300		REV. A		SCALE NONE		SHEET 8 OF 8	